

#### ABSTRACT OF THE DISCLOSURE

A method for I/Q mismatch calibration in a receiver. The receiver has an I/Q correction module using parameters  $A_p$  and  $B_p$ . The method comprises the steps of generating an 5 analog test signal  $x(t)$ , applying I/Q demodulation to reduce the central frequency of the signal  $x(t)$  by  $f_c$  Hz and outputting a demodulated signal  $x_{dem}(t)$ , converting the analog signal  $x_{dem}(t)$  to a digital signal  $x_{dem}[n]$ , sending the signal  $x_{dem}[n]$  into the I/Q correction module using 10 parameters  $A_p$  and  $B_p$  and outputting a corrected signal  $w[n]$ , obtaining two measures  $U_1$  and  $U_2$  of the corrected signal  $w[n]$ , and updating the parameters  $A_p$  and  $B_p$  of the I/Q 15 correction module respectively by a first and second function of the two measures  $U_1$  and  $U_2$ , and the current values of the parameters  $A_p$  and  $B_p$ .